

DERWENT-ACC-NO: 1996-205763  
DERWENT-WEEK: 199621  
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TITLE: Water-borne pigment dispersion - contg. alkali soluble resin dispersants surfactant and water

PATENT-ASSIGNEE: SEIKO EPSON CORP [SHIH]

PRIORITY-DATA:  
1994JP-0208897 (September 1, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 08073787 A	March 19, 1996	N/A
008	C09D 011/00	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 08073787A	N/A	1994JP-0208897
	September 1, 1994	

INT-CL (IPC): C09D011/00; C09D011/16 ; C09D017/00  
ABSTRACTED-PUB-NO: JP 08073787A

BASIC-ABSTRACT:

The pigment dispersion comprises at least a pigment, an alkali soluble resin dispersant, a surfactant and water.

USE - The dispersant is used in ink jet recording and hand writing tools.

ADVANTAGE - The dispersion has less change of pigment dia. depending on cm. changes, even if by repeating freezing and fusing.

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: G02 T04

CLIPPEDIMAGE= JP408073787A

PAT-NO: JP408073787A

DOCUMENT-IDENTIFIER: JP 08073787 A

TITLE: AQUEOUS PIGMENT DISPERSION AND ITS PRODUCTION

PUBN-DATE: March 19, 1996

INVENTOR-INFORMATION:

NAME  
SHINOZUKA, SHOICHI  
TSUCHIYA, KYO

ASSIGNEE-INFORMATION:

NAME	COUNTRY
SEIKO EPSON CORP	N/A

APPL-NO: JP06208897

APPL-DATE: September 1, 1994

INT-CL (IPC): C09D011/00;C09D011/16 ;C09D017/00

ABSTRACT:

PURPOSE: To obtain an aqueous pigment dispersion desirable as an ink colorant by mixing a pigment with an alkali-soluble resin dispersant, a surfactant and water.

CONSTITUTION: This production process consists of dispersing a mixture comprising a pigment in which the black pigment is aniline black or carbon black, the yellow pigment is an insoluble azo, isoindolinone, benzimidazolone or condensed azo pigment, and the red pigment is an insoluble azo, quinacridone perillene or dioxazine pigment, and the blue pigment is a phthalocyanine or indanthrene dye, a nonionic long-chain-alkyl-containing surfactant having an HLB of 14 or above and water with a grinding mill, adding a solution prepared by neutralizing an alkali-soluble resin dispersant having an acid value of 100mg(KOH) or above with an alkanolamine and dissolving the product dissolved in water to the above dispersion and adsorptively exchanging the surfactant for the alkali-soluble resin dispersant under agitation.

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	L #	Hits	Search Text	DBs	Time Stamp
1	L1	11184	(pigment or carbon adj black) near10 (modified or modify or attach\$4 or bond\$3 or treat\$4 or graft\$3 or absorb\$3 or absorption) near10 (polymer or resin or monomer)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:56
2	L2	1294	(pigment or carbon adj black) near10 (modified or modify or attach\$4 or bond\$3 or treat\$4 or graft\$3 or absorb\$3 or absorption) near10 surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:28
3	L3	421	(pigment or carbon adj black) near10 (modified or modify or attach\$4 or bond\$3 or treat\$4 or graft\$3 or absorb\$3 or absorption) near10 (polymer or resin or monomer) near10 surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:29
4	L4	238271	@pd>20020808	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:30
5	L5	1087	((523/160) or (523/161)).CCLS.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:30

	L #	Hits	Search Text	DBs	Time Stamp
6	L6	598	((106/31.6) or (106/31.65) or (106/31.85)).CCLS.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:30
7	L7	66	4 and (5 or 6)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:30
8	L8	476	1 and 2	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:30
9	L11	725	(associative or ph adj dependent) near5 thicken\$3	USPAT; EPO; JPO; DERWEN T; USOCR	2002/11/25 06:30
10	L12	5	4 and 11 and ink	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:31

	L #	Hits	Search Text	DBs	Time Stamp
11	L9	183	3 and ink	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:33
12	FAMILY	1	1998-348490.NRAN.	DERWEN T	2002/11/25 06:47
13	L10	224	8 and ink	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:49
14	L14	46	10 not 9	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:49
15	L15	1009	1 and surfactant and ink	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:56
16	L16	125	11 and ink	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:56

	L #	Hits	Search Text	DBs	Time Stamp
17	L17	790	(523/161).CCLS.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:56
18	L18	32	15 and 17	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 06:59
19	L19	163	15 and writing	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:07
20	L20	1304	(pigment or carbon adj black) near10 (dispersant or dispersing adj agent) near10 surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:13
21	L21	150	20 and ink and writing	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:14

	L #	Hits	Search Text	DBs	Time Stamp
22	L22	32	20 and 17	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:13
23	L23	1138	(pigment or carbon adj black) near5 (dispersant or dispersing adj agent) and (pigment or carbon adj black) near5 surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:14
24	L26	2	("5478602").PN.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:17
25	L27	1	26 and pigment	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:17
26	L24	104	23 and ink and writing	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:17

	L #	Hits	Search Text	DBs	Time Stamp
27	L25	34	23 and 17	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:27
28	L28	46	17 and dispersant and pigment and surfactant and writing	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:32
29	L29	4	(("4994520") or ("5952429")).PN.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:32
30	L30	2	29 and surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:33
31	L31	152250	(mitsubishi adj pencil or kabushiki adj kaisha).asn.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:34

	L #	Hits	Search Text	DBs	Time Stamp
32	L32	144	31 and ink and (disperant or dispersing) same surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:37
33	L33	4	jp-08073787-\$ did. or jp-01301760-\$ did.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 07:37
34	L34	2	("5609432").PN.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:33
35	L35	153	surface near3 treat\$4 near5 pigment near10 surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:39
36	L36	597	surface near3 treat\$4 near5 pigment near10 (polymer or resin or dispersant)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:39

	L #	Hits	Search Text	DBs	Time Stamp
37	L37	56	35 and 36	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:36
38	L38	1214	(treat\$4 or absorb\$3 or coat\$3) near5 pigment near10 surfactant	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:40
39	L39	3475	(treat\$4 or attach\$4 or bond\$3 or modified) near5 pigment near10 (polymer or resin or dispersant)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:41
40	L40	167	38 and 39	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:48
41	L41	793	1x860 or e3370 or lpdm7010 or (boncoat or voncoat) adj "3750" or fk600 or rm5 or sa22 or jsr0693 or 1x adj "860" or e adj "3370" or lpdm adj "7010" or fk adj "600" or rm adj "5" or sa adj "22" or jsr adj "0693"	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:54

	L #	Hits	Search Text	DBs	Time Stamp
42	L42	19	41 near10 (acrylic or butadiene)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:53
43	L43	10	lx860 or e3370 or lpdm7010 or (boncoat or voncoat) adj "3750" or fk600 or lx adj "860" or e adj "3370" or lpdm adj "7010" or fk adj "600"	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/11/25 08:55